CHAPTER IV
DETAIL DESIGN

INFORMATION FOR 404 PERMIT APPLICATIONS

COUNTY: County ROUTE: Route JOB NO.: Job No.

Stream Name: _____ Station No. at stream centerline _____
Designer _____ Bridge Project Manager _____
Environmental Classification: CE ___ CE2 ___ EA ___ EIS ___
Wetland Impacts: Yes ___ No ___ Acres _____
Threatened and Endangered Species: Yes ___ No ___

Amount and type of excavation and material which will be used in streams, lakes and wetlands BELOW THE CORPS OF ENGINEERS' ORDINARY HIGHWATER LINE (OHL) elevation (for larger structures this should be determined during the bridge survey, for other stream crossings, request OHL elevations be taken during ground survey of smaller culverts):

1. Permanent berms and spill fills (in wetlands, streams **below** OHL)

   a. Earth fill _____ sq. ft. and _____ CY
   b. (1) Rock blanket _____ sq. ft. and _____ CY
      (2) Linear ft. of rock blanket along:
      right descending bank = _____ ft.; left descending bank = _____ ft.
   c. Rock ditch _____ sq. ft. (Acres _____)
   d. Other _____

2. Permanent Culverts (no channel realignment)

   a. Linear feet of existing channel (inlet to outlet) _____ ft.
   b. Average width of existing channel (inlet to outlet) _____ ft.
   C. Culvert length _____ ft.

3. Bridge or culvert with channel realignment(beyond structure)

   a. Existing channel length of section to be modified _____ ft.
   b. Average channel width in section to be modified _____ ft.
   c. Realigned section: length = _____ ft., width = _____ ft.
   d. Realigned section width _____ ft.

4. Temporary fills (Best Estimate; in wetlands, streams **below** OHL)

   a. Earth fill _____ sq. ft. and _____ CY
      Class C _____ sq. ft. and _____ CY
   b. Location of temporary fills:_____
      _____
   c. Source of material: _____
      _____
   d. Final disposition of removed materials: _____
      _____
   e. Pipe Culvert - Number: _____ Size: _____ Length: _____ ft.
      (Opening shall be sufficient to handle normal flow.)

5. Channel cleanout - excavation below OHL:

   a. _____ linear ft. of cleanout upstream of structure

Data Required for Application of Section 404 Permits

b. _____ linear ft. cleanout downstream of structure
c. total quantity of material to be removed below OHL:
area = _____ sq. ft.; volume = _____ CY

NOTES TO DESIGNER:

1. An 8½" x 11" copy of the plan and profile should be sent with the above information for the file. The Corps of Engineers Ordinary High Water line (OHL) elevation should be printed and shown on the profile view along with the Design High Water typically shown. If the roadway design drawings do not include all of the detailed information requested above, include 11" x 17" copy of the bridge from the Design Layout prepared by the bridge division.

2. A copy of USGS 7.5' topographic map with project alignment and endpoints marked should also be sent with the above information.

3. If Items 1. and 4. exceed 1/3 acre (0.15 ha), an individual permit application may be sent to the Corps. If so, submit a completed Form 4345 (Application for Department of the Army Permit) that includes the information requested on the form above and the figures described in Notes 1 and 2 above.

4. If Item 3a exceeds 500 ft. (150 m) an individual permit may be required. If so, submit a completed Form 4345 (Application for Department of the Army Permit) that includes the information requested on the form above and the figures described in Notes 1 and 2 above.

5. Earth fill may be used for temporary fill only if capped with Class C material.

6. In lieu of submitting multiple copies of this form, the district may submit a single table with information requested on this form for each crossing of a wetland, stream (shown as blue line on USGS), or other water body considered to be a water of the United States (all lakes and some ponds - consult with the environmental section in the Preliminary Studies Divisions to make this determination).